



Apply Now

Electrical Systems Installation and Maintenance

Why Electrical Systems Installation and Maintenance?

The ESIM program provides the skills and education needed for employment opportunities in the electrical industry as electricians or technicians in residential, commercial, and industrial establishments. Graduates find upward mobility and good wages in an industry that is undergoing rapid expansion with fewer workers available. The industry offers a wide range of jobs in building construction, industrial and institutional facilities, estimating and project management, solar photovoltaics, product sales, design, and inspection. The curriculum meets licensing requirements as set forth by the State of New Hampshire.

Potential Jobs/Careers

- Electrician (after completing NH state licensing requirements)
- Industrial Maintenance Technician
- Project Manager and/or Estimator
- Electrical Inspector

Potential Salary:

There is a wide range of jobs in the Electrical Industry. See below for average hourly pay range in NH for:

Electrician:

- Entry Level \$20.36/Hour
- Mid-Range \$29.52/Hour
- Experienced \$34.11/Hour

Maintenance:

- Entry Level \$24.43/Hour
- Mid-Range \$30.90/Hour
- Experienced \$34.13/Hour

Repair:

- Entry Level \$24.79/Hour
- Mid-Range \$35.93/Hour
- Experienced \$40.11/Hour

Estimated Program Cost:

- \$7,718 per year
for a total of \$15,436

*Costs are based on in-state tuition and do not include fees, supplies, or books. *Additional fees may apply; all prices are subject to change.

DEGREE Requirements

FIRST YEAR Fall Semester Credits

ETEC126L	Residential Wiring and Electrical Blueprint Reading	3
ETEC127L	Resid. Wiring and Electrical Blueprint Reading Lab	2
ETEC124L	AC/DC Theory	5
ETEC141L	NEC I	2
MATH129L	Quantitative Reasoning	4
INDL120L	College Essentials	1
	TOTAL	17

FIRST YEAR Spring Semester Credits

ETEC123L	Wiring Theory and Techniques (Commercial)	6
ETEC142L	NEC II	2
ENGL100L	English Composition	4
ELECTIVE	Social Science Elective	3
	TOTAL	15

Total Credits for Year = 32

SECOND YEAR Fall Semester Credits

ETEC143L	NEC III	2
ETEC215L	Photovoltaics	3
ETEC230L	Electrical Motor Control	3
PHYS125L	Technical Physics	3
ELECTIVE	Open Elective	3
	TOTAL	14

SECOND YEAR Spring Semester Credits

ETEC210L	Intro to Electrical Estimating and Design	3
ETEC224L	Wiring Theory and Technique (Industrial)	4
ETEC234L	Construction Site Safety	3
ELECTIVE	Liberal Arts Elective	3
ELECTIVE	Humanities/Fine Arts/ Foreign Language Elective	3
	TOTAL	16

Total Credits for Year = 30

Total for A.S. Degree = 62

CERTIFICATE Requirements

ETEC126L	Residential Wiring and Electrical Blueprint Reading	3
ETEC127L	Resid. Wiring and Electrical Blueprint Reading Lab	2
ETEC123L	Wiring Theory and Techniques (Commercial)	6
ETEC124L	AC/DC Theory	5
ETEC141L	NEC I	2
ETEC142L	NEC II	2
ETEC143L	NECIII	2
MATH129L	Quantitative Reasoning	4
ESNT120L	College Essentials	1
	TOTAL	27